



# STIC Search Report

## EIC 2800

STIC Database Tracking Number: 150252

TO: Armando Rodriguez  
Location: JEF-5A24  
Art Unit : 2828  
Friday, April 15, 2005

Case Serial Number: 10/672,181

From: Jeff Harrison  
Location: EIC 2800  
JEF-4B68  
Phone: 22511

### Search Notes

Examiner Rodriguez,

Re: Your Request for an Electrode of Cu + a Cu Alloy in a Gas Laser, before 9/13/01

Please find attached the search history and the edited search results from Chemical Abstracts and INSPEC.

See especially the tagged JP2001015830, which has such an electrode in a laser apparatus. The abstract does not say "gas laser" but perhaps it would be useful.

If you would like more searching on this case, or if you have questions or comments, please let me know.

Respectfully,  
Jeff Harrison

15apr05 16:46:14 User259284 Session D3152.2

File 2:INSPEC 1969-2005/Apr W1  
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Set	Items	Description
S1	42191	CI=CU EL
S2	19017	CI=CU BIN
S3	30580	CI=CU(S)NE=3
S4	35551	CI=CU(S)NE=2
S5	43953	S2:S4 NOT CI=(CU SS(S)O SS)
S6	55272	S2:S4 NOT CI=(CU BIN(S)O BIN)
S7	42442	(CU OR COPPER) (2N)ALLOY??????
S8	15173	S1 AND (S5:S6)
S9	2108	S1 AND S7
S10	1771	8AND9
S11	15510	S8:S10
S12	46746	'GAS LASERS' OR 'DISCHARGE LASERS' OR 'GASDYNAMIC LASERS' - OR 'ION LASERS' OR CC='A4255D' OR GAS(2N)LASER???? OR (CO OR - CO2 OR DIOXIDE OR F OR ARF OR FLOUR?????? OR AR OR ARGON) (2N)- LASER?????
S13	2419	R1:R3 OR BIMETAL? OR BI()METAL???????
S14	171	11AND12
S15	87	11AND13
S16	0	14AND15
S17	0	(CU OR COPPER OR S1:S11) AND S13 AND S12
S18	4	S15 AND (ANODE?? OR CATHODE?? OR ELECTRODE??)
S19	1347	(S1:S11 OR S13:S18) AND S12
S20	101	S19.AND (ANODE?? OR CATHODE?? OR ELECTRODE??)
S21	101	S20 NOT S18
S22	2	S21 AND (CU OR COPPER) (3N)ELEMENTAL
S23	1	S21 AND (CU OR COPPER) (3N)METAL
S24	0	S21 AND (CU OR COPPER) (3N)METALLIC
S25	3	S22:S23
S26	197	(CU OR COPPER) (4N) (BIMETAL? OR BI()METAL??????)
S27	3050	(CU OR COPPER) (4N) (ELECTRODE?? OR ANODE?? OR CATHODE??)
S28	5	26AND27

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FILE 'HCAPLUS' ENTERED AT 16:50:17 ON 15 APR 2005

E BIMETALLIC/CT

E E4+ALL/CT

L1 29267 SEA ABB=ON PLU=ON BIMETAL? OR DIMETAL? OR (BI OR DI OR TWO  
OR 2) (W)METAL#####

FILE 'REGISTRY' ENTERED AT 16:51:27 ON 15 APR 2005

L2 1 SEA ABB=ON PLU=ON COPPER/CN  
L3 82218 SEA ABB=ON PLU=ON COPPER ALLOY  
L4 30855 SEA ABB=ON PLU=ON CU>75/MAC  
L5 29861 SEA ABB=ON PLU=ON L4 NOT O/ELS,MAC

FILE 'HCAPLUS' ENTERED AT 16:53:45 ON 15 APR 2005

L6 17384 SEA ABB=ON PLU=ON L2 AND (L3 OR L5)  
L7 231 SEA ABB=ON PLU=ON L1 AND L6  
L8 0 SEA ABB=ON PLU=ON L7 AND GAS DISCHARGE  
L9 2 SEA ABB=ON PLU=ON L7 AND LASER  
L10 14 SEA ABB=ON PLU=ON L7 AND ELECTRODE  
L11 4 SEA ABB=ON PLU=ON L7 AND DISCHARG#####  
L12 18 SEA ABB=ON PLU=ON (L9 OR L10 OR L11)  
D ALL HITSTR TOT  
L13 2 SEA ABB=ON PLU=ON (LASER OR LASE### OR LASING OR VCSEL OR  
VERTICAL CAVITY OR GAS### (2A)ELECTRODE) AND L7  
L14 0 SEA ABB=ON PLU=ON L13 NOT L12  
L15 14 SEA ABB=ON PLU=ON ELECTRODE AND L7  
L16 1329 SEA ABB=ON PLU=ON ELECTRODE AND L6  
L17 375 SEA ABB=ON PLU=ON L6 AND LASER  
L18 13 SEA ABB=ON PLU=ON L6 AND GAS### (2A) LASER  
L19 13 SEA ABB=ON PLU=ON L6 AND LASER (4A) ELECTRODE  
L20 13 SEA ABB=ON PLU=ON L6 AND ELECTRODES (L) LASER  
L21 8 SEA ABB=ON PLU=ON L6 AND LASERS (L) (ELECTRODE OR CONDUCTOR)  
L22 112046 SEA ABB=ON PLU=ON (CU OR COPPER) (4W) (CU OR COPPER)  
L23 6348 SEA ABB=ON PLU=ON L6 AND L22  
L24 13950 SEA ABB=ON PLU=ON (CU OR COPPER) (4W) (CU OR COPPER) (4W) ALLOY##  
####  
L25 13950 SEA ABB=ON PLU=ON L22 AND L24  
L26 1503 SEA ABB=ON PLU=ON L6 AND (CU OR COPPER) (4W) ALLOY#### (4W) (CU  
OR COPPER)  
L27 635 SEA ABB=ON PLU=ON L6 AND ALLOY#### (4W) (CU OR COPPER) (4W) (CU  
OR COPPER)  
L28 3613 SEA ABB=ON PLU=ON L23 AND L25  
L29 3 SEA ABB=ON PLU=ON (L26 OR L27 OR L28) AND GAS DISCHARG#####  
L30 57 SEA ABB=ON PLU=ON (L26 OR L27 OR L28) AND LASER  
L31 4 SEA ABB=ON PLU=ON (L26 OR L27 OR L28) AND LASER (3A) (GAS#####  
OR DISCHARG#####)  
L32 39 SEA ABB=ON PLU=ON L15 OR (L18 OR L19 OR L20 OR L21) OR L29  
OR L31  
L33 25 SEA ABB=ON PLU=ON L32 NOT L12  
D ALL HITSTR TOT  
L34 43 SEA ABB=ON PLU=ON L32 OR L12  
L35 53 SEA ABB=ON PLU=ON L30 NOT L34  
L36 1 SEA ABB=ON PLU=ON L35 AND (CATHODE OR ANODE)  
D ALL HITSTR  
L37 10540 SEA ABB=ON PLU=ON LASERS (L) (CO2 OR CARBON DIOXIDE)

FILE 'REGISTRY' ENTERED AT 17:04:32 ON 15 APR 2005

L38 1672 SEA ABB=ON PLU=ON CARBON DIOXIDE

FILE 'HCAPLUS' ENTERED AT 17:04:50 ON 15 APR 2005

L39 6255 SEA ABB=ON PLU=ON L38 (L) LASER  
L40 2 SEA ABB=ON PLU=ON L35 AND (L37 OR L38 OR L39)  
L41 1 SEA ABB=ON PLU=ON L40 NOT L36  
L42 44 SEA ABB=ON PLU=ON L36 OR L33 OR L12  
L43 1 SEA ABB=ON PLU=ON L40 NOT L42  
D ALL HITSTR  
L44 5 SEA ABB=ON PLU=ON L6 AND (FOOTPRINT#### OR FOOT (W) PRINT#####  
)

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L45 3 SEA ABB=ON PLU=ON L44 NOT (L40 OR L36 OR L34)  
D ALL HITSTR TOT

FILE 'METADEX' ENTERED AT 17:59:03 ON 15 APR 2005  
E COPPER/CT

L46 76053 SEA ABB=ON PLU=ON COPPER/CT  
L47 50593 SEA ABB=ON PLU=ON (CU OR COPPER) (3A)ALLOY#####  
L48 12260 SEA ABB=ON PLU=ON L46 AND L47  
L49 176 SEA ABB=ON PLU=ON LASER AND L48  
L50 15 SEA ABB=ON PLU=ON L49 AND (ANODE? OR CATHODE? OR ELECTRODE?)

D L50 ALL TOT

FILE 'COMPENDEX' ENTERED AT 18:02:52 ON 15 APR 2005  
E GAS LASERS/CT

E E3+ALL/CT  
L51 18486 SEA ABB=ON PLU=ON ("GAS LASERS"/CT OR "LASERS, GAS"/CT OR  
"CARBON DIOXIDE LASERS"/CT OR "GAS DYNAMIC LASERS"/CT OR  
"HELIUM NEON LASERS"/CT) OR LASER###(2A)GAS#####  
L52 3759 SEA ABB=ON PLU=ON (CU OR COPPER) (4A) (ANODE OR CATHODE OR  
ELECTRODE)  
L53 36 SEA ABB=ON PLU=ON L51 AND L52  
L54 6 SEA ABB=ON PLU=ON L53 AND (ALLOY##### OR BIMETAL? OR BI  
METAL#####)  
D ALL TOT